Release notes for ENDF/B Development n-053_I_131 evaluation

April 26, 2017

- checkr Warnings:

  1. A previous error halted parsing of the current section
     MAT=5337, MF= 1, MT=451 (1): Parsing stopped

     ```
     ERROR(S) FOUND IN MAT=5337, MF= 1, MT=451
         SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      223 TO      285
     ```

- checkr Errors:

  1. A variable is outside the allowed ENDF range
     MAT=5337, MF= 1, MT=451 (0): Variable range

     ```
     ERROR(S) FOUND IN MAT=5337, MF= 1, MT=451
         MOD =     1 OUT OF RANGE     0 -     0          RECORD NUMBER     223
     ```

  2. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=5337, MF= 2, MT=151 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=5337, MF= 2, MT=151
         SECTION  2/151 NOT IN DIRECTORY               RECORD NUMBER     287
     ```

  3. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=5337, MF= 3, MT= 1 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=5337, MF= 3, MT=  1
         SECTION  3/  1 NOT IN DIRECTORY               RECORD NUMBER     644
     ```

  4. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=5337, MF= 3, MT= 2 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=5337, MF= 3, MT=  2
         SECTION  3/  2 NOT IN DIRECTORY               RECORD NUMBER     676
     ```

  5. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=5337, MF= 3, MT= 4 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=5337, MF= 3, MT=  4
         SECTION  3/  4 NOT IN DIRECTORY               RECORD NUMBER     705
     ```

  6. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=5337, MF= 3, MT= 16 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=5337, MF= 3, MT= 16
         SECTION  3/ 16 NOT IN DIRECTORY               RECORD NUMBER     723
     ```

  7. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=5337, MF= 3, MT= 17 (0): Directory (b)

1

```
      ERROR(S) FOUND IN MAT=5337, MF= 3, MT= 17
        SECTION  3/ 17 NOT IN DIRECTORY              RECORD NUMBER      734
```

8. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=5337, MF= 3, MT= 22 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5337, MF= 3, MT= 22
        SECTION  3/ 22 NOT IN DIRECTORY              RECORD NUMBER      740
```

9. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=5337, MF= 3, MT= 28 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5337, MF= 3, MT= 28
        SECTION  3/ 28 NOT IN DIRECTORY              RECORD NUMBER      754
```

10. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 3, MT= 32 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5337, MF= 3, MT= 32
        SECTION  3/ 32 NOT IN DIRECTORY              RECORD NUMBER      765
```

11. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 3, MT= 33 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5337, MF= 3, MT= 33
        SECTION  3/ 33 NOT IN DIRECTORY              RECORD NUMBER      773
```

12. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 3, MT= 51 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5337, MF= 3, MT= 51
        SECTION  3/ 51 NOT IN DIRECTORY              RECORD NUMBER      781
```

13. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 3, MT= 52 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5337, MF= 3, MT= 52
        SECTION  3/ 52 NOT IN DIRECTORY              RECORD NUMBER      799
```

14. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 3, MT= 53 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5337, MF= 3, MT= 53
        SECTION  3/ 53 NOT IN DIRECTORY              RECORD NUMBER      816
```

15. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 3, MT= 54 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5337, MF= 3, MT= 54
          SECTION  3/ 54 NOT IN DIRECTORY                RECORD NUMBER     832
```

16. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 3, MT= 55 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5337, MF= 3, MT= 55
          SECTION  3/ 55 NOT IN DIRECTORY                RECORD NUMBER     848
```

17. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 3, MT= 56 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5337, MF= 3, MT= 56
          SECTION  3/ 56 NOT IN DIRECTORY                RECORD NUMBER     863
```

18. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 3, MT= 57 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5337, MF= 3, MT= 57
          SECTION  3/ 57 NOT IN DIRECTORY                RECORD NUMBER     878
```

19. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 3, MT= 58 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5337, MF= 3, MT= 58
          SECTION  3/ 58 NOT IN DIRECTORY                RECORD NUMBER     892
```

20. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 3, MT= 59 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5337, MF= 3, MT= 59
          SECTION  3/ 59 NOT IN DIRECTORY                RECORD NUMBER     905
```

21. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 3, MT= 60 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5337, MF= 3, MT= 60
          SECTION  3/ 60 NOT IN DIRECTORY                RECORD NUMBER     918
```

22. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 3, MT= 61 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5337, MF= 3, MT= 61
          SECTION  3/ 61 NOT IN DIRECTORY                RECORD NUMBER     931
```

23. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 3, MT= 62 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=5337, MF= 3, MT= 62
        SECTION  3/ 62 NOT IN DIRECTORY                    RECORD NUMBER      943
```

24. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 3, MT= 63 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=5337, MF= 3, MT= 63
        SECTION  3/ 63 NOT IN DIRECTORY                    RECORD NUMBER      955
```

25. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 3, MT= 64 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=5337, MF= 3, MT= 64
        SECTION  3/ 64 NOT IN DIRECTORY                    RECORD NUMBER      966
```

26. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 3, MT= 65 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=5337, MF= 3, MT= 65
        SECTION  3/ 65 NOT IN DIRECTORY                    RECORD NUMBER      977
```

27. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 3, MT= 91 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=5337, MF= 3, MT= 91
        SECTION  3/ 91 NOT IN DIRECTORY                    RECORD NUMBER      988
```

28. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 3, MT=102 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=5337, MF= 3, MT=102
        SECTION  3/102 NOT IN DIRECTORY                    RECORD NUMBER      998
```

29. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 3, MT=103 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=5337, MF= 3, MT=103
        SECTION  3/103 NOT IN DIRECTORY                    RECORD NUMBER     1021
```

30. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 3, MT=104 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=5337, MF= 3, MT=104
        SECTION  3/104 NOT IN DIRECTORY                    RECORD NUMBER     1036
```

31. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 3, MT=105 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=5337, MF= 3, MT=105
        SECTION  3/105 NOT IN DIRECTORY                    RECORD NUMBER    1049
```

32. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 3, MT=107 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=5337, MF= 3, MT=107
        SECTION  3/107 NOT IN DIRECTORY                    RECORD NUMBER    1061
```

33. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 4, MT= 2 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=5337, MF= 4, MT=  2
        SECTION  4/  2 NOT IN DIRECTORY                    RECORD NUMBER    1078
```

34. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 4, MT= 16 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=5337, MF= 4, MT= 16
        SECTION  4/ 16 NOT IN DIRECTORY                    RECORD NUMBER    1267
```

35. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 4, MT= 17 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=5337, MF= 4, MT= 17
        SECTION  4/ 17 NOT IN DIRECTORY                    RECORD NUMBER    1278
```

36. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 4, MT= 22 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=5337, MF= 4, MT= 22
        SECTION  4/ 22 NOT IN DIRECTORY                    RECORD NUMBER    1289
```

37. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 4, MT= 28 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=5337, MF= 4, MT= 28
        SECTION  4/ 28 NOT IN DIRECTORY                    RECORD NUMBER    1300
```

38. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 4, MT= 32 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=5337, MF= 4, MT= 32
        SECTION  4/ 32 NOT IN DIRECTORY                    RECORD NUMBER    1311
```

39. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 4, MT= 33 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5337, MF= 4, MT= 33
         SECTION  4/ 33 NOT IN DIRECTORY                    RECORD NUMBER    1322
```

40. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 4, MT= 51 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5337, MF= 4, MT= 51
         SECTION  4/ 51 NOT IN DIRECTORY                    RECORD NUMBER    1333
```

41. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 4, MT= 52 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5337, MF= 4, MT= 52
         SECTION  4/ 52 NOT IN DIRECTORY                    RECORD NUMBER    1361
```

42. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 4, MT= 53 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5337, MF= 4, MT= 53
         SECTION  4/ 53 NOT IN DIRECTORY                    RECORD NUMBER    1389
```

43. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 4, MT= 54 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5337, MF= 4, MT= 54
         SECTION  4/ 54 NOT IN DIRECTORY                    RECORD NUMBER    1417
```

44. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 4, MT= 55 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5337, MF= 4, MT= 55
         SECTION  4/ 55 NOT IN DIRECTORY                    RECORD NUMBER    1444
```

45. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 4, MT= 56 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5337, MF= 4, MT= 56
         SECTION  4/ 56 NOT IN DIRECTORY                    RECORD NUMBER    1471
```

46. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 4, MT= 57 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5337, MF= 4, MT= 57
         SECTION  4/ 57 NOT IN DIRECTORY                    RECORD NUMBER    1498
```

47. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 4, MT= 58 (0): Directory (b)

6

```
        ERROR(S) FOUND IN MAT=5337, MF= 4, MT= 58
          SECTION  4/ 58 NOT IN DIRECTORY                    RECORD NUMBER    1522
```

48. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 4, MT= 59 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5337, MF= 4, MT= 59
          SECTION  4/ 59 NOT IN DIRECTORY                    RECORD NUMBER    1546
```

49. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 4, MT= 60 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5337, MF= 4, MT= 60
          SECTION  4/ 60 NOT IN DIRECTORY                    RECORD NUMBER    1570
```

50. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 4, MT= 61 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5337, MF= 4, MT= 61
          SECTION  4/ 61 NOT IN DIRECTORY                    RECORD NUMBER    1594
```

51. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 4, MT= 62 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5337, MF= 4, MT= 62
          SECTION  4/ 62 NOT IN DIRECTORY                    RECORD NUMBER    1618
```

52. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 4, MT= 63 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5337, MF= 4, MT= 63
          SECTION  4/ 63 NOT IN DIRECTORY                    RECORD NUMBER    1642
```

53. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 4, MT= 64 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5337, MF= 4, MT= 64
          SECTION  4/ 64 NOT IN DIRECTORY                    RECORD NUMBER    1666
```

54. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 4, MT= 65 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5337, MF= 4, MT= 65
          SECTION  4/ 65 NOT IN DIRECTORY                    RECORD NUMBER    1690
```

55. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 4, MT= 91 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5337, MF= 4, MT= 91
         SECTION  4/ 91 NOT IN DIRECTORY              RECORD NUMBER    1714
```

56. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 5, MT= 16 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5337, MF= 5, MT= 16
         SECTION  5/ 16 NOT IN DIRECTORY              RECORD NUMBER    1739
```

57. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 5, MT= 17 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5337, MF= 5, MT= 17
         SECTION  5/ 17 NOT IN DIRECTORY              RECORD NUMBER    1795
```

58. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 5, MT= 22 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5337, MF= 5, MT= 22
         SECTION  5/ 22 NOT IN DIRECTORY              RECORD NUMBER    1825
```

59. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 5, MT= 28 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5337, MF= 5, MT= 28
         SECTION  5/ 28 NOT IN DIRECTORY              RECORD NUMBER    2015
```

60. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 5, MT= 32 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5337, MF= 5, MT= 32
         SECTION  5/ 32 NOT IN DIRECTORY              RECORD NUMBER    2134
```

61. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 5, MT= 33 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5337, MF= 5, MT= 33
         SECTION  5/ 33 NOT IN DIRECTORY              RECORD NUMBER    2175
```

62. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5337, MF= 5, MT= 91 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5337, MF= 5, MT= 91
         SECTION  5/ 91 NOT IN DIRECTORY              RECORD NUMBER    2212
```

- `recent` Warnings:

    1. Fission widths given for non-fissile nucleus, but are zero
       0: Fission?

```
Calculate Cross Sections from Resonance Parameters (RECENT 2015-1)
================================================================================
Retrieval Criteria-----------        MAT
File 2 Mimimum Cross Section- 1.0000E-10 (Standard Option)
Reactions with No Background-    Output (Resonance Contribution)
... [615 more lines]
```

- fudge-4.0 Warnings:

  1. The URR for this spin group needs higher energy resolution for correct representation of the average cross section
  resonances / unresolved (Error # 0): URRinsufficientEnergyGrid

     ```
     WARNING: More points needed in L=0 J=3.0 unresolved widths between 30. eV and 1.e2 eV
     WARNING: More points needed in L=0 J=4.0 unresolved widths between 30. eV and 1.e2 eV
     WARNING: More points needed in L=1 J=2.0 unresolved widths between 30. eV and 1.e2 eV
     WARNING: More points needed in L=1 J=3.0 unresolved widths between 30. eV and 1.e2 eV
             ... plus 8 more instances of this message
     ```

  2. Cross section does not match sum of linked reaction cross sections
  crossSectionSum label 0: total (Error # 0): CS Sum.

     ```
     WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.95%
     ```

  3. Cross section does not match sum of linked reaction cross sections
  crossSectionSum label 1: (z,n) (Error # 0): CS Sum.

     ```
     WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.12%
     ```

- fudge-4.0 Errors:

  1. Calculated and tabulated Q values disagree.
  reaction label 17: n[multiplicity:'2'] + I130 (Error # 0): Q mismatch

     ```
     WARNING: Calculated and tabulated Q-values disagree: -9126530.044586182 eV vs -8.6301e6 eV!
     ```

  2. Calculated and tabulated Q values disagree.
  reaction label 18: n[multiplicity:'3'] + I129 (Error # 0): Q mismatch

     ```
     WARNING: Calculated and tabulated Q-values disagree: -15626859.47642517 eV vs -1.50982e7 eV!
     ```

  3. Calculated and tabulated Q values disagree.
  reaction label 19: n + H1 + Te130 (Error # 0): Q mismatch

     ```
     WARNING: Calculated and tabulated Q-values disagree: -7925152.67175293 eV vs -7396640. eV!
     ```

  4. Calculated and tabulated Q values disagree.
  reaction label 20: n + H2 + Te129 (Error # 0): Q mismatch

     ```
     WARNING: Calculated and tabulated Q-values disagree: -14120132.80329895 eV vs -1.35036e7 eV!
     ```

  5. Calculated and tabulated Q values disagree.
  reaction label 21: n + H3 + Te128 (Error # 0): Q mismatch

     ```
     WARNING: Calculated and tabulated Q-values disagree: -13945307.96990967 eV vs -1.34093e7 eV!
     ```

6. Calculated and tabulated Q values disagree.
   reaction label 22: I132 + gamma (Error # 0): Q mismatch

   ```
   WARNING: Calculated and tabulated Q-values disagree: 5783613.369979858 eV vs 6326390. eV!
   ```

7. Calculated and tabulated Q values disagree.
   reaction label 23: n + He4 + Sb127 (Error # 0): Q mismatch

   ```
   WARNING: Calculated and tabulated Q-values disagree: -3712407.577178955 eV vs -3.1689e6 eV!
   ```

8. Energy range of data set does not match cross section range
   reaction label 23: n + He4 + Sb127 / Product: n / Distribution: / uncorrelated - energy - XYs2d: (Error # 0): Domain mismatch (a)

   ```
   WARNING: Domain doesn't match the cross section domain: (3193310.0 -> 20000000.0) vs (3193320.0 -> 20000000.0)
   ```

9. Calculated and tabulated Q values disagree.
   reaction label 24: H1 + Te131_s (Error # 0): Q mismatch

   ```
   WARNING: Calculated and tabulated Q-values disagree: -1995773.201049805 eV vs -1467540. eV!
   ```

10. Calculated and tabulated Q values disagree.
    reaction label 25: H2 + Te130_s (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: -5700586.57081604 eV vs -5086520. eV!
    ```

11. Calculated and tabulated Q values disagree.
    reaction label 26: H3 + Te129_s (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: -7862899.862686157 eV vs -7318460. eV!
    ```

12. Calculated and tabulated Q values disagree.
    reaction label 27: He4 + Sb128_s (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: 2267340.571121216 eV vs 2933210. eV!
    ```

- `njoy2012` Warnings:

  1. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
     groupr...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)

     ```
     ---message from conver---cannot do complete particle production for mt= 16
                          only mf4/mf5 provided
     ```

  2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
     groupr...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)

     ```
     ---message from conver---cannot do complete particle production for mt= 17
                          only mf4/mf5 provided
     ```

10

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
groupr...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)

```
   ---message from conver---cannot do complete particle production for mt= 22
                       only mf4/mf5 provided
```

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
groupr...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)

```
   ---message from conver---cannot do complete particle production for mt= 28
                       only mf4/mf5 provided
```

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
groupr...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)

```
   ---message from conver---cannot do complete particle production for mt= 32
                       only mf4/mf5 provided
```

6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
groupr...compute self-shielded group-averaged cross-sections (5): GROUPR/conver (0)

```
   ---message from conver---cannot do complete particle production for mt= 33
                       only mf4/mf5 provided
```

7. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
groupr...compute self-shielded group-averaged cross-sections (6): GROUPR/conver (0)

```
   ---message from conver---cannot do complete particle production for mt= 91
                       only mf4/mf5 provided
```